INTERNATIONAL SEARCH REPORT

Internation Application No PCT/US2005/010014

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 B60G17/015 B60K31/00 B60T8/00 B62D6/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) B60G B60K B60T B62D IPC 7 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with Indication, where appropriate, of the relevant passages Category 5 1,15 US 6 282 474 B1 (CHOU CLIFFORD C ET AL) Α 28 August 2001 (2001-08-28) 10 - 14abstract; figures column 3, lines 2-52 US 2003/212482 A1 (LU JIANBO ET AL) 1,15 Α 13 November 2003 (2003-11-13) 10-14 abstract paragraphs [0034], [0035] 1,10,15 WO 03/081180 A (AUTOMOTIVE SYSTEMS LABORATORY, INC) 2 October 2003 (2003-10-02) abstract page 17, lines 17-27 page 32, line 28 - page 35, last line Patent family members are listed in annex. Further documents are listed in the continuation of box C. X I "T" later document published after the international filling date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "O" document referring to an oral disclosure, use, exhibition or document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 2 6 AUG 2005 17 June 2005 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Schultze, Y

INTERNATIONAL SEARCH REPORT

Internation Application No
PCT/US2005/010014

		PCT/US2005/010014
C.(Continua	ntion) DOCUMENTS CONSIDERED TO BE RELEVANT	To the No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2003/058118 A1 (WILSON KITCHENER C) 27 March 2003 (2003-03-27) abstract; figures paragraphs [0013], [0014], [0257] - [0264]	1,10,15
A	US 2003/182042 A1 (WATSON W. TODD ET AL) 25 September 2003 (2003-09-25) abstract paragraphs [0026], [0032], [0096], [0097], [0099], [0100], [0132]	1,10,15
Α	US 2003/158633 A1 (SCHUBERT PETER J) 21 August 2003 (2003-08-21) abstract paragraph [0043]	1,10,15
Α	EP 1 386 802 A (FORD GLOBAL TECHNOLOGIES, LLC) 4 February 2004 (2004-02-04) abstract; figures paragraph [0025]	1,10,15
A	US 2002/056582 A1 (CHUBB ERIK CHRISTOPHER ET AL) 16 May 2002 (2002-05-16) abstract; figures	1,10,15
A	US 5 749 984 A (FREY ET AL) 12 May 1998 (1998-05-12) abstract; figures column 3, line 23 - column 4, line 51	3

INTERNATIONAL SEARCH REPORT

Internation on patent family members

PCT/US2005/010014

				[, -	.,	
Patent document cited in search report		Publication date	_	Patent family member(s)		Publication date
US 6282474	B1	28-08-2001	DE GB	10125871 A 2368439 A		14-02-2002 01-05-2002
US 2003212482	A1	13-11-2003	DE GB	10320544 A 2388435 A		27-11-2003 12-11-2003
WO 03081180	Α	02-10-2003	AU EP WO US	2003220396 A 1487678 A 03081180 A 2003182041 A	\2 \2	08-10-2003 22-12-2004 02-10-2003 25-09-2003
US 2003058118	A1	27-03-2003	EP WO	1390218 / 02092364 /		25-02-2004 21-11-2002
US 2003182042	A1	25-09-2003	AU WO	2003214228 / 03081179 /		08-10-2003 02-10-2003
US 2003158633	A1	21-08-2003	NONE			
EP 1386802	A	04-02-2004	US EP EP EP JP US US US	2004059480 / 1386802 / 1386803 / 1386805 / 1386806 2004131070 / 2004131071 / 2004010383 / 2004019418 / 2004030473 / 2004064246 / 2004181329 /	A1 A1 A2 A1 A A1 A1 A1	25-03-2004 04-02-2004 04-02-2004 04-02-2004 30-04-2004 30-04-2004 15-01-2004 29-01-2004 12-02-2004 01-04-2004 16-09-2004
US 2002056582	A1	16-05-2002	US US US US US DE GB	6356188 2004010383 2004019418 2004030473 2004064246 10146724 2367044	A1 A1 A1 A1 A1	12-03-2002 15-01-2004 29-01-2004 12-02-2004 01-04-2004 18-04-2002 27-03-2002
US 5749984	Α	12-05-1998	CA JP JP	2189688 3350896 9188113	B2	30-06-1997 25-11-2002 22-07-1997
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